BRUHAT BANGALORE MAHANAGAR PALIKE

YALAHANKA DIVISION

Name of Work: :Improvements to Roads, drains and other developmental works in ward No-03 & 04. Under road development head in Chief Minister Nava Nagarothan Grants of Yalahanka divison. (Package - 04)

Name of Contractor :- B.B.UMESHA (M/S SMLP Asphalts)

Estimated cost: 1400.00 Lakhs

Amount put to Tender as per Sanction :

Agreement No. BBMP/EE/Ynk.D/E-PMT-12/AG225/2019-20

Accepted Tendered Amount : 13,97,29,968.00

Head of Account :

RATE ANALYSIS -Work Slip- WORKS (PWD CSR 2018-19)

Sl No	Item Code	Page No	Dscription.	Unit	Basic Rate	Lift charges	Total	AW @ 6%	Total Rate	Add T.P (+) 5%	Final Rate.
2	19.55	146	KSRRB M300-49. Scarifying bituminous course 50mm to 75mm thick allong the premix carpet surface dressing by manual means without disturbing the base and stacking of the debris materials including the cost of all labour charges complete as per specification. MORTH / Chapter 3	Sq-m	90.00		90.00	5.40	95.40	4.77	100.17
4	19.66	147	Ksrrb M300-59.2. Loosening, Levelling And Compacting Origial Ground Supporting Embankment To Facilitate Placement Of First Layer Of Embankment, Scarified To A Depth Of 150mm, Mixed With Water At Omc And Then Compacted By Rolling So As To Achieve Minimum Dry Density As Given In Table 300-2 For Embankment Construction. Complete As Per Specifications. Case-Ii Compacting Original Ground Supporting Embankment.(Which Includes Watering Charges & Compaction By Vibratory Roller) Morth Specification No 305.3.4	Sq-m	23.00		23.00	1.38	24.38	1.22	25.60
5	19.14	143	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting loading and with cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications. MORTH Specification No.301.	Cu-m	41.00		41.00	2.46	43.46	2.17	45.63

7	20.6	153	Construction of granular sub-base Grading-V as sub-base and drainage layer by by providing Coarse graded material, speading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with vibratory roller to achieve 98% proctor density, complete as perspecification. Clause 4010 of MORTH V Revision.	Cu-m	1,750.00		1750.00	105.00	1855.00	92.75	1947.75
8	20.18	155	KSRRB M400-17. Providing, laying,spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired surface and compacting with vibratory roller to achive the desired density complete as per specifications.MORTH Specification No.406	Cu-m	1,888.00		1888.00	113.28	2001.28	100.06	2101.34
10	21.6	158	KSRRB M500-6.Providing and applying primer coat with S.S bitumen emulsion on prepared surface of granular base such as WMM including of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. Clause 502 of MORTH V	Sq-m	32.00		32.00	1.92	33.92	1.70	35.62
12	21.17.2	160	SRRB 500-17 Provding and laying dense geaded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 505 of MORTH V revision 21.17.6 -do- using 40/60 TPH capacity H.M P. with Mechanical paver Gr-II (50 mm to 75mm) with 4.5 % VG-30 Bitumen.	Cu-m	7,189.00		7189.00	431.34	7620.34	381.02	8001.36

14	22.1.1	174	Construction of Dry Lean Cement Concrete mix CC 1:5:10 with OPC cement @160kgs with 25mm and down size graded granite metal coarse aggregate @ 0.86 cum and fine aggregate@0.58cum sub base over a prepared sub-grade with (coarse and fine aggregate confirming to IS383)aggregate cement ratio not to exceed 15:1aggregate gradation after blending to be as per table 600-1 cement content not to be less than 160kg per cum optimum moisture content to be length construction, concrete strength not to be less than 10Mpa @ 7 days mixed in a batching plant transported to site with a paver with electronic sensor compacting with 8 to 10 ton vibratory roller finishing and curing complete as per specification.MORTH Specification No.601. of MORTH V Revision and IS 456 Table-5. 22.1.1 do with OPC at 150kg/cum and coarse aggregate 0.58cum using concrete batch mix plant at 75 cum/hr capacity with slip form paver with electronic sensor.	Cu-m	3,585.00		3585.00	215.10	3800.10	190.01	3990.11
16	24.41	187	KSRRB M800-35. Supply and Installation of Moulded Shank /raised Pavement Markers made of polycarbonate and ABS (Acrylonitrile Butadiene Styrne) moulded body and reflective pane;s with micro prismatic lens capable of provididng tital internal reflection of the light enerting the lens face and shall support a load of 16000 kg tested in accorande to Specifications of Catergory A of MORTH Circular No RW/NH/33023/10-97-DO III Dt 11.06.1997. The height, width and lengh shall not exceed 50mm, 100mm and 102 mm and with minimum reflective area of 13 Sqcm on each side and the slpoe to the base shall shanks, (of diameter not less than 19mm and height not less than 30 mm)nfrommthe body is to be a minimum value of 500 Kg. Fixing will be by drilling holes on the road for the shanks to go inside, wihtout nails and using epoxy resin base;d adhesive as per manufaturer's recommendaion and complete as directed by the engineer	No's	337.00		337.00	20.22	357.22	17.86	375.08
28	24.1	180	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8	Sq-m	80.00		80.00	4.80	84.80	4.24	89.04

30	20.18	155	KSRRB M400- Wet Mix Macadam KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406	Cu-m	1,888.00		1888.00	113.28	2001.28	100.06	2101.34
34	19.1	143	KSRRB 300-1. Earthwork excavation by manual means for roads,drains and similar works in ordinary soil , excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3	Cu-m	130.00		130.00	7.80	137.80	6.89	144.69
35	34.1	254	KSRRB M2900- PCC 1:3:6 in Foundation KSRRB M2900-1. Plain cement concrete M10 mix with crushed stone aggregate 40 m nominal size mechanically mixed, placed in foundation and compacted by vibration including curing complete as per specifications MORTH Specification No. 408	Cu-m	4,226.00		4226.00	253.56	4479.56	223.98	4703.54
36	28.8.3	229	KSRRB M2200-6. Supplying, fitting and placing TMT bar reinforcement for RCC work including straightening,cutting,bending,hooking,placing in position ,lapping/welding wherever required tying with bending wire and anchoring to the adjoining members wherever necessary complete as per design(laps,hooks and wastage shall not be measured and paid) cost of materials , labour, HOM complete as per Specifications.MORTH Specification No.1600 & 2200	tonne	68,233.00		68233.00	4093.98	72326.98	3616.35	75943.33

37	37.59.2	271	Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.43cum, machine mixed well compacted for walls and bottom including centering,shuttering cost of materials, HOM of machinery, curing ets., complete excluding cost of steel as per MORTH specifications, No.1500,1700,2200, including cost of all materials, labour, HOM of machinery, curing complete as per specifications	Cum	6,670.00		6670.00	400.20	7070.20	353.51	7423.71

Consultant

Assistant Engineer

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